

“Internet Server Appliance Platform with Flexible Integrated Suite of Server Resources
and Content Delivery Capabilities Supporting Continuous Data Flow Demands and Bursty
Demands”

ABSTRACT OF THE DISCLOSURE

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[0088] A horizontally scalable arrangement of computing and storage resources,
including interconnections and interoperations, allowing configuration of various ratios of
server capability to storage capability through a flexible and reconfigurable blade
organization. External data communications are interfaced to two separate internal
10 communications networks through a fixed set of switching resources, the switching
resources being independent of the server and storage blades, one internal communications
network for data flow to and from storage elements, and another internal network for data
flow to and from server elements. Both internal networks are used for data flow between
server and storage elements. The integrated switches reduce the number of cables in the
15 system by providing aggregation and distribution of data. Signal processing resources are
distributed with each server element, allowing efficient deployment of Internet applications
without the need for specialized signal processing server platforms such as voice
recognition servers, video compression servers, etc.